IN THE CLAIMS:

Please preliminarily amend the claims as follows:

1. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), comprising: with the quantity of substances in percentage falling within ranges of:

-0.1 to 99.87 percent water-0.1~99.87%; and/or

0.01 to 40 percent R-COOH: 0.01~40%;

<u>0.01 to 30 percent R-COOH soluble molecule or polymer selected from the group consisting of soluble carbohydrate molecules, (including glucosamine) and/or hydroxyl or hydroxyl amino, and/or carbohydrate polymers (including chitosan): and</u>

0.01~30% and 0.01 to 30 percent metal salts; 0.01~30%, and generally added/blended or heated/mixed according to a routine method to form a solution, wherein the R-COOH is an organic acid or an organic acid matter including one or more metal-polymer cholatechelates.

2. (Currently Amended) The solution of metal-polymer eholate(s)chelates(s) of claim 1, wherein the solution of metal-polymer eholate(s)chelates(s) is comprised of water and R-COOH;

soluble carbohydrates molecules and/or hydroxyl and/or carbohydrates polymer, added with

metal salts; and

ammonia or amine matters, and mixed evenly according a regular method.

3. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claim 1, wherein said solution of metal-polymer cholate(s)chelates(s) is comprised of water and R-COOH;

soluble carbohydrate molecules and/or monosaccharide bimolecules, added with

metal salts; and

ammonia or amine matters, and mixed evenly according to a routine method practice.

4. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claim 1, wherein the solution of metal-polymer cholate(s)chelates(s) is comprised of water and R-COOH;

and/or alkaline saponification soluble R-COOH having high or middle quanityquantity of alkyl R such as fatty acid and/or carbohydrate molecules, and added with;

metal salts;

and ammonia or amine matters, and mixed evenly according to a routine method.

- 5. (Currently Amended) The solution of metal-polymer eholate(s)chelates(s) of elaimsclaim 1, wherein the metal salt is one or more monovalent, bivalent, or trivalent metal salts and the metal salt is selected from the group consisting of—a beryllium, magnesium, calcium, strontium, barium, radium, nickel, chromium, lead, copper, iron, zinc, titanium, manganese, cobalt, silver, gold, platinum, palladium, cadmium, lithium, rubidium, cesium, mercury, tin, zirconium, aluminum, thallium, antimony, bismuth, germanium, gallium, molybdenum, tungsten, yttrium, scandium, rhodium, iridium, technetium, osmium, ruthenium, rhenium, vanadium, indium, lanthanum and actinium series metal salt.
- 6. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s)

of claimsclaim 1, wherein the number of R-COOH is equal to or greater then one, and the R is an alkyl radical or an alkyl matter, amdand the R-COOH is selected from the group consisting of monocarboxylic acid, dicarboxylic acid, tricarboxylic acid, acetic acid, citric acid, vitamin C, salicylic acid, ethylene glycol, formic acid, propionic acid, malonic acid, lactic acid, malic acid, succinic acid, adipic acid, maleic acid, fumaric acid, ortho acid, oxalic acid, lauric acid, tartaric acid, lycium acid, humic acid, nitrified humic acid, fatty acid, opines in a plant, carboxyl acid fiber, and carboxyl resin such as Amberlite IRC-50.

7. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 1, wherein the carbohydrate-molecule and/or hydroxyl or hydroxyl amino and/or carboxyl and/or carbohydrate polymerR-COOH soluble molecule or polymer is one or more carbohydrate molecule or and/or hydroxyl or hydroxyl amino and/or carboxyl and/or carbohydrate polymer selected from the group consisting collection of sucrose, maltose, lactose, rechalose; disaccharide group, monosaccharide group (including glucosamine), chitosan, degradated degraded oils, seaweed cell wall (containing calcium without adding a metal salt), cereal such as an unhusked rice (containing calcium without adding a metal salt), cytokinin-O-glucosides including monosaccharide bimolecules or polyvinyl alcohol together with ammonia (or amine) matter or separate polyvinyl alcohol, or humic acid together with ammonia (or amine) matter without requiring a dissolution of acid, nitrified humic acid, peat, separate humic acid, nitrified humic acid, peat, or amino polyvinyl alcohol, or 0.1~6% of hydroxypropylmethyl cellulose (HPMC) and 1~4% of chitosan, or 0.1~6% of hydroxypropylmethyl 1~4% cellulose (HPMC) and artificial synthesized chitosan, or hydroxypropylmethyl cellulose (HPMC) together with ammonia (or amine) matter, or hydroxypropylmethyl cellulose (HPMC), or hydroxyl or hydroxyl and amino and/or carboxyl and/or carbohydrate polymer or/and oil or/and sugar mixed with each other.

- 8. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claim 1, wherein the metal-polymer cholate chelate is a monosaccharide molecule (including glucosamine) or monosaccharide bimolecule or disaccharide or hydroxyl or hydroxyl and amino and/or carboxyl and/or carbohydrate polymer solution of metal-polymer cholate(s)chelates(s), wherein the polymer bridging agent (preferably a solution of metal-polymer cholate(s)chelates(s) containing monosaccharide or monosaccharide bimolecule) and/or inorganic polymer carrier (including inorganic and organic bridge inorganic polymer or nano inorganic polymer) and/er plant fiber (including carboxyl acid fiber or modification having carboxyl acid fiber) and/or carboxyl resin such as amberlite IRC-50 and/amino resin or inorganic matter such as polylysine or aminosilane, wherein the metalpolymer ehelatechelate and/or inorganic polymer carrier and/or plant fiber and/or carboxyl resin and /amino resin or inorganic matter can perform solid-liquid separation and purification for amino metal compound or amino metal polymer or amino nano metal polymer or amino nano metal compound or nano metal polymer or nano metal compound or amino biological protein or pure biological protein.
- 9. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claim 1, wherein the solution of metal-polymer cholate(s)chelates(s) includes a moisture absorbent combined with the metal-polymer hybrid.
- 10. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 8, wherein the polymer bridging agent or hybrid moisture

absorbent-is polyvinylpyrrolidone (PVP).

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- 11. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claim 1, further including a protein enzyme or a bacteria or a cell.
- 12. (Currently Amended) The solution of metal-polymer eholate(s)chelates(s) of claim 1, wherein the solution of metal-polymer eholate(s)chelates(s) and/or the hydroxyl polymer including a silicic acid group and/or a nano powder.
- 13. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claim 1, wherein the solution of metal-polymer cholate(s)chelates(s) is used for the nano material production or nano ceramic or nano plastic or nano textile industry from gas, liquid to solid comprising ozone, strong oxygen O⁻²or O₂, hydrogen peroxide, nitrogen gas, ammonia and ammonia gas, sulfur and sulfur gas, phosphoric acid, nitric acid, nitric acid, hydrofluoric acid, boric acid, sulfuric acid, carbonic acid, sulfonic acid, hydrochlorous acid, trichloroacetic acid, isophthalic acid, phthalic acid, graphite, carbon black, bone, pearl, enamel.
- 14. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claim 1, wherein the solution of metal-polymer cholate(s)chelates(s) used for a nano plastic industry or a nano textile industry includes a plastic or rubber polymer.
- 15. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used for an oxidation of producing oxygen cations and degradations (excluding chitosan solution of metal-polymer cholate(s)).

16. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used for a condensation and an oxidizing condensation.

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- 17. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used in artificial imitated chitosan—(excluding chitosan—solution of metal-polymer cholate(s)), artificial imitated glucosamine—(including the manufacture of amino metal polymer or amino metal compound or amino nano metal polymer or amino nano metal compound).
- 18. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used in a biochemical reaction for fermentation—(including biological cell or bacteria or protein enzyme and its metabolite cultivation and purification).
- 19. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s) being used in a metal enzyme biocatalyst (including a dry protein enzyme for enhancing activity).
- 20. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used in a disinfectant (excluding a chitosan solution of metal-polymer cholate(s)).
- 21. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used in a cell or bacteria or protein enzyme culture medium preservation system.
- 22. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used for dietic treatments and health cares (excludingchitosan solution of

metal-polymer cholate(s)).

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- 23. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used for the production of chemical matters of a plant.
- 24. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used for genes and carriers.
- 25. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used in a nano filtration system (excluding chitosan solution of metal-polymer cholate(s)).
- 26. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used for the production of a fermentation nano material.
- 27. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used for the nano inorganic matter and nano ceramic and nano plastic and nano textile industries.
- 28. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s), being used in the manufacture of liquid crystals and semicondetorssemiconductors (including chitosan and biological semicondetors) and biochips.
- 29. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s) is used for batteries.

30. (Currently Amended) A solution of metal-polymer cholate(s)chelates(s) is used for processing a solvent liquid (including the processing of oil products) and removing a solvent liquid (including chitosan and processing organic solvents), and detecting the concentration of an organic gas.

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- 31. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 2, wherein the metal salt is one or more monovalent, bivalent, or trivalent metal salts and the metal salt is selected from the group consisting of a beryllium, magnesium, calcium, strontium, barium, radium, nickel, chromium, lead, copper, iron, zinc, titanium, manganese, cobalt, silver, gold, platinum, palladium, cadmium, lithium, rubidium, cesium, mercury, tin, zirconium, aluminum, thallium, antimony, bismuth, germanium, gallium, molybdenum, tungsten, yttrium, scandium, rhodium, iridium, technetium, osmium, ruthenium, rhenium, vanadium, indium, lanthanum and actinium series metal salt.
- 32. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 3, wherein the metal salt is one or more monovalent, bivalent, or trivalent metal salts and the metal salt is selected from the group consisting of a beryllium, magnesium, calcium, strontium, barium, radium, nickel, chromium, lead, copper, iron, zinc, titanium, manganese, cobalt, silver, gold, platinum, palladium, cadmium, lithium, rubidium, cesium, mercury, tin, zirconium, aluminum, thallium, antimony, bismuth, germanium, gallium, molybdenum, tungsten, yttrium, scandium, rhodium, iridium, technetium, osmium, ruthenium, rhenium, vanadium, indium, lanthanum and actinium series metal salt.
- 33. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 4, wherein the metal salt is one or more monovalent, bivalent, or

trivalent metal salts and the metal salt is selected from the group consisting of a beryllium, magnesium, calcium, strontium, barium, radium, nickel, chromium, lead, copper, iron, zinc, titanium, manganese, cobalt, silver, gold, platinum, palladium, cadmium, lithium, rubidium, cesium, mercury, tin, zirconium, aluminum, thallium, antimony, bismuth, germanium, gallium, molybdenum, tungsten, yttrium, scandium, rhodium, iridium, technetium, osmium, ruthenium, rhenium, vanadium, indium, lanthanum and actinium series metal salt.

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- 34. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 2, wherein the number of R-COOH is equal to or greater then one, and the R is an alkyl radical or an alkyl matter, amdand the R-COOH is selected from the group consisting of monocarboxylic acid, dicarboxylic acid, tricarboxylic acid, acetic acid, citric acid, vitamin C, salicylic acid, ethylene glycol, formic acid, propionic acid, malonic acid, lactic acid, malic acid, succinic acid, adipic acid, maleic acid, fumaric acid, ortho acid, oxalic acid, lauric acid, tartaric acid, lycium acid, humic acid, nitrified humic acid, fatty acid, opines in a plant, carboxyl acid fiber, and carboxyl resin such as Amberlite IRC-50.
- 35. (Currently Amended) The solution of metal-polymer eholate(s)chelates(s) of elaimsclaim 3, wherein the number of R-COOH is equal to or greater then one, and the R is an alkyl radical or an alkyl matter, amdand the R-COOH is selected from the group consisting of monocarboxylic acid, dicarboxylic acid, tricarboxylic acid, acetic acid, citric acid, vitamin C, salicylic acid, ethylene glycol, formic acid, propionic acid, malonic acid, lactic acid, malic acid, succinic acid, adipic acid, maleic acid, fumaric acid, ortho acid, oxalic acid, lauric acid, tartaric acid, lycium acid, humic acid, nitrified humic acid, fatty acid, opines in a plant, carboxyl acid fiber, and carboxyl resin such as Amberlite IRC-50.

36. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 4, wherein the number of R-COOH is equal to or greater then one, and the R is an alkyl radical or an alkyl matter, amd the R-COOH is selected from the group consisting of monocarboxylic acid, dicarboxylic acid, tricarboxylic acid, acetic acid, citric acid, vitamin C, salicylic acid, ethylene glycol, formic acid, propionic acid, malonic acid, lactic acid, malic acid, succinic acid, adipic acid, maleic acid, fumaric acid, ortho acid, oxalic acid, lauric acid, tartaric acid, lycium acid, humic acid, nitrified humic acid, fatty acid, opines in a plant, carboxyl acid fiber, and carboxyl resin such as Amberlite IRC-50.

37. (Currently Amended) The solution of metal-polymer chelate(s)chelates(s) of claimsclaim 2, wherein the carbohydrate molecule and/or hydroxyl or hydroxyl amino and/or carboxyl and/or carbohydrate polymerR-COOH soluble molecule or polymer is one or more carbohydrate molecule or nydroxyl or hydroxyl amine and/or carboxyl and/or carbohydrate polymer selected from the group consisting-collection of sucrose, maltose, lactose, rechalose; disaccharide group, monosaccharide group (including glucosamine), chitosan, degradateddegraded oils, seaweed cell wall (containing calcium without adding a metal salt), cereal such as an unhusked rice (containing calcium without adding a metal salt), cytokinin-O-glucosides including monosaccharide bimolecules or polyvinyl alcohol together with ammonia (or amine) matter or separate polyvinyl alcohol, or humic acid together with ammonia (or amine) matter without requiring a dissolution of acid, nitrified humic acid, peat, separate humic acid, nitrified humic acid, peat, or amino polyvinyl alcohol, or 0.1~6% of hydroxypropylmethyl cellulose (HPMC) and 1~4% of chitosan, or 0.1~6% of hydroxypropylmethyl cellulose (HPMC) and 1~4% artificial synthesized chitosan, or

hydroxypropylmethyl cellulose (HPMC) together with ammonia (or amine) matter, or hydroxypropylmethyl cellulose (HPMC), or hydroxyl or hydroxyl and amino and/or carboxyl and/or carbohydrate polymer or/and oil or/and sugar mixed with each other.

- 38. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s) of claimsclaim 3, wherein the carbohydrate molecule and/or hydroxyl or hydroxyl amino and/or carboxyl and/or carbohydrate polymer isR-COOH soluble molecule or polymer is one or more carbohydrate molecule or and/or hydroxyl or hydroxyl amino and/or carboxyl and/or carbohydrate polymer selected from the group consisting collection of sucrose, maltose, lactose, rechalose; disaccharide group, monosaccharide group (including glucosamine), chitosan, degradateddegraded oils, seaweed cell wall (containing calcium without adding a metal salt), cereal such as an unhusked rice (containing calcium without adding a metal salt), cytokinin-O-glucosides including monosaccharide bimolecules or polyvinyl alcohol together with ammonia (or amine) matter or separate polyvinyl alcohol, or humic acid together with ammonia (or amine) matter without requiring a dissolution of acid, nitrified humic acid, peat, separate humic acid, nitrified humic acid, peat, or amino polyvinyl alcohol, or 0.1~6% of hydroxypropylmethyl cellulose (HPMC) and 1~4% of chitosan, or 0.1~6% of hydroxypropylmethyl 1~4% cellulose (HPMC) and artificial synthesized chitosan, hydroxypropylmethyl cellulose (HPMC) together with ammonia (or amine) matter, or hydroxypropylmethyl cellulose (HPMC), or hydroxyl or hydroxyl and amino and/or carboxyl and/or carbohydrate polymer or/and oil or/and sugar mixed with each other.
- 39. (Currently Amended) The solution of metal-polymer cholate(s)chelates(s)



of claimsclaim 4, wherein the carbohydrate molecule and/or hydroxyl or hydroxyl amino and/or carboxyl and/or carbohydrate polymerR-COOH soluble molecule or polymer is one or more carbohydrate molecule or and/or hydroxyl-or-hydroxyl amino and/or carboxyl and/or carbohydrate polymer selected from the group consisting of collection of sucrose, maltose, lactose, rechalose; disaccharide group, monosaccharide group (including glucosamine), chitosan, degradateddegraded oils, seaweed cell wall (containing calcium without adding a metal salt), cereal such as an unhusked rice (containing calcium without adding a metal salt), cytokinin-O-glucosides including monosaccharide bimolecules or polyvinyl alcohol together with ammonia (or amine) matter or separate polyvinyl alcohol, or humic acid together with ammonia (or amine) matter without requiring a dissolution of acid, nitrified humic acid, peat, separate humic acid, nitrified humic acid, peat, or amino polyvinyl alcohol, or 0.1~6% of hydroxypropylmethyl cellulose (HPMC) and 1~4% of chitosan, or 0.1~6% of hydroxypropylmethyl 1~4% artificial cellulose (HPMC) and synthesized chitosan. hydroxypropylmethyl cellulose (HPMC) together with ammonia (or amine) matter, or hydroxypropylmethyl cellulose (HPMC), or hydroxyl or hydroxyl and amino and/or carboxyl and/or carbohydrate polymer or/and oil or/and sugar mixed with each other.

40. (Currently Amended) The solution of metal-polymer eholate(s)chelates(s) of claimsclaim 9, wherein the polymer bridging agent or hybrid moisture absorbent is polyvinylpyrrolidone (PVP).